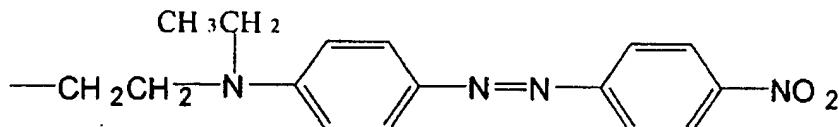


AMENDMENTS TO THE CLAIMS

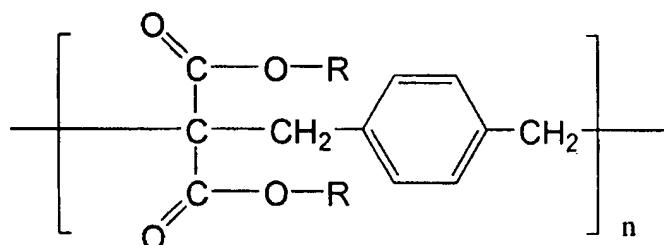
1. (canceled).
2. (canceled).
3. (currently amended) A polymer for data storage, in which two disperse red functional groups of Chemical Formula 1 are bonded to each repeat unit of the polymer

<Chemical Formula 1>

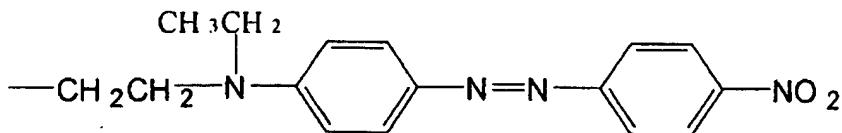


The polymer of claim 1, which wherein the polymer has a structure of the Chemical Formula 3 as follows:

<Chemical Formula 3>



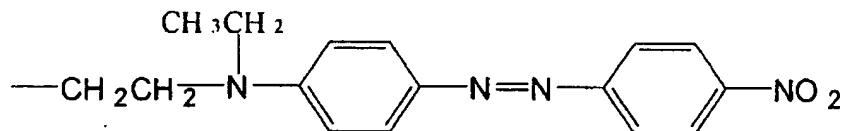
wherein n is an integer; two $-\text{CH}_2-$ are bonded to a benzene ring in ortho- or meta- or para- position in the above, and R is the disperse red 1 functional group



and the average molecular weight of the polymer is in the range of from about 2,000 to 15,000.

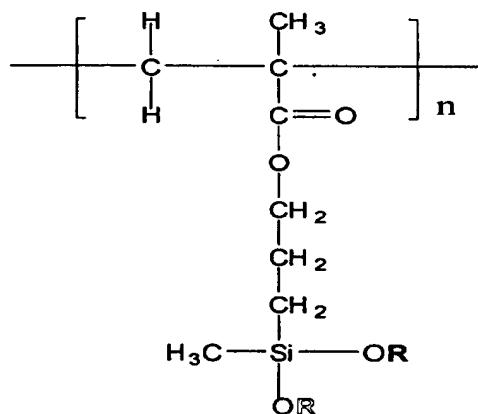
4. (currently amended) A polymer for data storage, in which two disperse red functional groups of Chemical Formula 1 are bonded to each repeat unit of the polymer

<Chemical Formula 1>

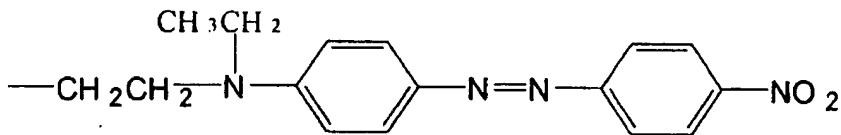


~~The polymer of claim 1, which wherein the polymer has a~~
structure of the Chemical Formula 4 as follows:

<Chemical Formula 4>



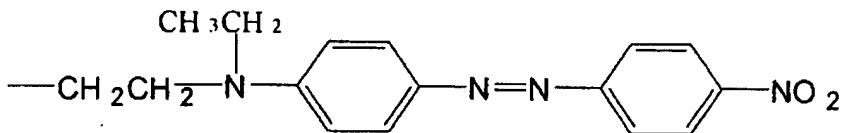
wherein n is an integer; R is



and the average molecular weight of the polymer is in the range of from about 2,000 to 15,000.

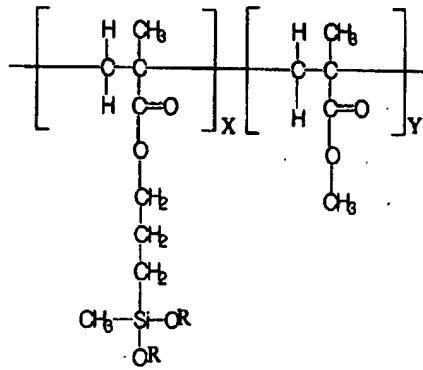
5. (currently amended) A polymer for data storage, in which two disperse red functional groups of Chemical Formula 1 are bonded to the same repeat units of the polymer

<Chemical Formula 1>

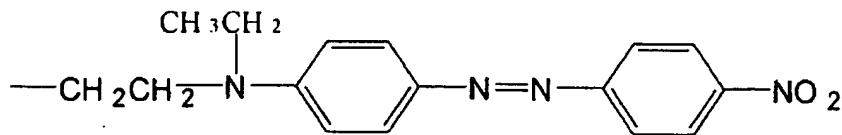


~~The polymer of claim 1, which wherein the polymer has a structure of the Chemical Formula 5 as follows:~~

<Chemical Formula 5>



wherein R is



the ratio of X:Y is 3~97 mol% : 97~3 mol%; and the average molecular weight of the polymer is in the ~~range~~ range of from about 2,000 to 15,000.

6. (canceled).

7. (currently amended) A blend copolymer, which consists of 5 ~ 30% of the polymer of claim 3 by weight and 70 ~ 95% of polymethylmethacrylate or polyvinylcarbazol polyvinyleabazel by weight.

8. (currently amended) A blend copolymer, which consists of 5 ~ 30% of the polymer of claim 4 by weight and 70 ~ 95% of polymethylmethacrylate or polyvinylcarbazol polyvinyleabazel by weight.

9. (currently amended) A blend copolymer, which consists of 5 ~ 30% of the polymer of claim 5 by weight and 70 ~ 95% of polymethylmethacrylate or polyvinylcarbazol polyvinyleabazel by weight.

10-22. (canceled).